Preserve

G R S IX 5]

Previous references

1918. File No 109-18

( ) Serial Nos 1 & 2.

Later references

GENERAL AND REVENUE SECRETARIAT

Serial Nos 1 & 2.

Part B for

SUBJECT

Programme of the Bangalore City Improvement Works during the 3 years from 1918-19 to 1920-21

To. The President, Bangalore City Mcity.

No 452/CS dt 17-5-19

Forwarding the Programme of Bangalore City Improvement Works for the years from 1918-19 to 1920-21.

A general Review of the Work done on with the Bangalore City Im

G.O No 5692-7 Rev 1920, dated 16/July issued and a copy of it has placed in the file

W D 1250—GPB—30 000—8-1 19

G R S III—1] 1918-19

GENERAL AND REVENUE SECRETARIAT

(Mil)

NOTES

File No 10 9-18

FILE HEADING

Programme of the Bangalore City Improvement Works during the 5 years from 1918-19 to 22-23

From

No.	Dated	Received
Diary No	Enclos / Spare Copies	Serial No

BRIEF ABSTRACT OF LETTER

NOTES AND ORDERS

Dewan's orders on the Tappal abstract for 14 & 1918

(Chairman's communication submitting a comprehensive programme of works to be carried out by the Trust Bd during the 5 years commencing from 1918-19 to 1922-23)

" Call for a similar one for Bangalore

Rev Secy's instructions " Mil Sec^t Put up draft, with c/

NOTES—First Sheet

WD 1252—GPB—20 000—18 11 1a

G R S III-2j

General and Revenue Secretariat

File No. 109 of 1918

Serial No.

A draft letter to the President is sent

19/8/18

Please put up copies of the letters as desired on the file.

20/8/18

Subject: Copies of the G.O.'s are put up.

23/8/18

23.8.18

(Rescd)

Let us see in what form the Chairman of the Trustees has reported. By file, I meant that relating to the Chairman's reference —

6.9.18.

10/9/18

Subject:

Please see Flag V in the linked file.

18/9/18

18/9

(Rescd)

26.9.18

1 To The President of Adj No 5200 dt 5:10-18.

Calls for a statement in the form attached thereto, showing a Construction programme of new City Improvement during 5 years from 1st April 1919

NOTE—Contn. sheet

1680 3(3

G R S III-2]

General and Revenue Secretariat

File No. 109 of 1918

Serial No. 2

From

The President, Bangalore City-Mty

No. 454/C2 dy 17-5-19

forwards the programme of Bangalore City Improvement works for the years from 1918-19 to 1920-21.

Submd

KMM 24/6/19

Please see the statement, and Examine the items shown as pending with Govt. Note separately in a routine note whether any are pending Govt

MK 5/6/19

Papers

Separate Routine Note Submd

KMM 10/6/19

Submitted for perusal and inviting attention to routine standing papers reported to be pending with Govt.

May an order issue approving of the programme

MK 20/6/19

Dewan)

DEWAN'S OFFICE
Recd on JUN 21 1919
Reg. No 8040

Mrs Gale was Officiating in the Bangalore City Improvements Trust during the Secretariat duties of Bangalore City Improvements Trust was carried on. Copies thereof have been placed in the file & to be recorded with it

KH 23/6/19

NOTE—Contn. sheet

WD'A,1789—GPB—60 000—20-8 18—S.

Submitted to the Secretary, Rev. Dept for kind perusal of the Hon'ble order against item No 1

Cgl
15 8 18

GENERAL AND REVENUE SECRETARIAT

Abstract of Tappal — dated 14 8 1918

NO	FROM WHOM	BRIEF ABSTRACT
	Chairman City Improvement Trust Board Mysore	Submit for orders of Government a Comprehensive Programme of works to be carried out by the Trust Board during the 5 years Commencing from 1918-19 to 1922-23
	Revenue Commissioner Mysore	Requesting Sanction of Government to the continuance of Mr S Chattarasam Iyengar on special duty on which he is engaged upto the end of December 1918
	Superintendent Rev Survey	Recommends the Continuance of the Forest Settlement Officer till the close of the current official year to complete the Settlement of the 39 blocks that are pending
		Submits a detailed Report on the training undergone and the examinations passed by Messrs P N Krishnaswamy and B Venkatarama, Survey Probationers,

GENERAL AND REVENUE SECRETARIAT

Abstract of Tappal— dated 14 8 18

No	FROM WHOM	BRIEF ABSTRACT
		and recommends the confirmation in the declaration as the last Superintendent
15	Conservator of Forests in Mysore	Submits detailed information in the matter of the complaint of Mr. Valentine, Superintendent the Workington Iron & Steel Co Ltd Shimoga for the delay in the shipment of Co his bills and the decrease of traffic in timber on the Tarikere line of the Company and adds that Mr Valentine's version is somewhat exaggerated

Secretary)

14 8 18

Superintendent
Registrar

✓ B

G R S V1—G/32] 2119 Secy †

SUBJECT .. ..

Entry No of letter replied to .. .

Section mcl
File No 109-18
Serial No

AND REVENUE SECRETARIAT

191

No 5200 — 9 5-1918

Date of issue. 1 5 1918

To

The President,

Municipal,

Bangalore City

Signed by [illegible] Assistant Secretary

Sir,

In inviting reference to the programme of the City Improvement Works sanctioned in the marginally noted orders, I am directed to request you to be so good as to submit to Govt in the form appended in the margin a comprehensive programme of the City Improvement Works for ...

over

597-847 & 13 8 '15 H
312-14-13

2747-50 & 3-11 16 Q
111-15-32

6517-20 & 3-5 18 M
87-17-32

28/9

Bangalore City Annual Budget Estimates for Bangalore City Improvements Trust

Statement of works for the years from 1918-19 to 1920-21.

No.	Name of work	Authority for the estimate	Grant amount	Allotment for 1918-19	Allotment for 1919-20	Allotment for 1920-21	Total of cols 4, 5, 6	Progress for balance of work during current year	Remarks
1	2	3		4	5	6	7	8	9

List of estimates from which

Copied by

Examined by

for City Improvement Fund during the 3 years from 1918-19 to 1920-21

Thereon

26.9.18

Secretary to Revenue

27/8/18

87

No 454/C 9 one Statement

OFFICE OF THE CITY MUNICIPAL COUNCIL,

Bangalore City, dated 17th May ____ 19 19

No. Rel. 109-18-2

From

DEWAN BAHADUR, RAJA SABHA BHUSHANA
K P PUTTANNA CHETTY, ESQ, CIE,
Honorary President, City Municipal Council,
BANGALORE CITY

D 14-3-84
VB 5-19.

To

S. Ramaswamiah, Esq., B.A., B.L ,
Secretary to the Government of
His Highness the Maharaja of Mysore, Revenue Department
B A N G A L O R E.

Sir,

With reference to your letter No.5200/M1 109-18-1 dated [illegible] September 1918, calling for a comprehensive programme of City Improvement works during 3 years from 1918-19 to 1920-21, I have the honour to submit herewith the programme in the form slightly modified from the one sent with your letter, only to make the statement more explanatory.

2.The total amount so far sanctioned is Rs 13 12 lakhs against Rs.13.07 lakhs originally sanctioned in Government Order No.6317-20 M1.87-17-32 dated 3rd May 1918, the excess of Rs 5,000/- being due to (1) an increase of Rs.3,000/- under layout of the market square-estimate being Rs.53,000/- against a provision of Rs.50,000/- and (2) an additional estimate for Rs 2155/- for silt clearance and grading of the City main drain not included in the programme before

3.An expenditure of Rs.2,83,565/- is accounted to have been incurred to the end of 1917-18 and it is proposed to spend Rs.6,66,659 as detailed in the statement during 1918-19 to 1920-21 These sums total up to Rs.9,50,224/- Out of this, Rs 40,540/- is expected to be realised by sale of sites in the proposed new Bamboo Bazaar. The net expenditure will thus be Rs.8,67,684/- or 8 68 lakhs against the

From The Honorary President
Municipal Council
Bangalore City

To The Secretary to the
Government of Mysore
Revenue Department
Bangalore

Dated
Despatched } 17th May 19

Received

General No 454
No

Enclosure No one Statement

Submitting a Comprehensive
programme of City
Improvement Works
during 3 years from
1918-19 to 1920-21

the estimate, leaving a balance of 4.02 lakhs at the end of 1920-21 to be expended on the completion of the General Market, Town Hall and Municipal Office, the only works which are likely to remain incomplete.

I have the honour to be,

Sir,

Your most obedient servant,

Honorary President

GRS III–3]

ROUTINE NOTES

[To be used only for notes, requisitions, etc. not intended for permanent record]

Improving Dobbspeth & Palace approach Rd

The detailed estimate are still due from the President, who reported in Jan.y 1919 that the Scheme was pending with the Central San.y Board. Reminders are regularly being issued in the matter, the last one issued on 6 5 19

Laying out of the Cantonment Road into plots &c.

The estimates for the acquisition of the properties have been approved of by the Dewan But before some of final orders in the matter, the President has been requested to state how the cost of acquisition is proposed to be met. (Vide No 14776 & 19 5-19) Proposals for the acquisition of properties for this purpose has now been received from the Dy Cmr, Bangalore Dist and the cost of acquisition of Rs 1,42,286-6-10 has been proposed to be met from usual Funds as the acquisition progresses (Vide Dy's letter No mis.C 4369/18-19 & 2 5 in vol 97-18-24) This can be stated in

YK
19 6 19

NB —Should routine notes be written on small slips the notes must be copied or slips pasted on this form

NMK
20/6/19

G.R.S. III–3]

ROUTINE NOTES

[To be used only for notes, requisitions, etc., not intended for permanent record]

	Submitted The stages of several improvement works shown as pending with Govt are noted below:–
Construction of General market	The leaders of messrs. — Hanumantappa & sons has applied and orders issued
Construction of Town Hall and Municipal Office.	The views of (1) the President City Municipal Council, (2) the City Improvement Committee, (3) the Chairman, Chamber of and (4) the Dy Comm.r Bangalore as regards the desirability of adhering or not to the present site have been called for (Vide No. 14079-82 & 5.5.19)
3) Improving the existing main drain near Avenue Road.	The Municipal Council was asked to furnish their opinion on the remarks suggestions of the Chief Engr in the matter (Letter No 6709 & 30.11.18) the last reminder was sent on 6.5.19

N B —Should routine notes be written on small slips the notes must be copied or slips pasted on this form

Government of His Highness the Maharaja of Mysore.

GENERAL AND REVENUE DEPARTMENTS

G. O. No. 5682-7—Ml. 1-19-2, dated 14th November 1919

Bangalore City Improvements

Reviews the work done in connection with the — and lays down the policy of Government in the matter

WD 192—GPB—19 11 19—270

No 5682-7—Ml 1-19-2, dated 14th November 1919.

PROCEEDINGS OF THE GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

GENERAL AND REVENUE DEPARTMENTS

Read the following Government Orders—

1 No Camp 2259—65, dated 30th March 1889, constituting a Committee called the "Bangalore City Improvement Committee" to report upon all improvements which they may regard as necessary and to carry out all such improvements as may be sanctioned by Government upon such reports

2 No 8165 72—L F 82-92, dated 10th December 1892, reconstituting the Bangalore City Improvement Committee

3 No 3720-22-26-97, dated 16th September 1898, forming a Special Improvement Division for effecting the necessary improvements in the city proper

4 No 1289 90—Ml 347 06-4, dated 4th August 1908, appointing a Committee to draw up a comprehensive scheme of improvements for the old city

5 No 6340 9—Ml 330-12-3, dated 20th December 1913, reconstituting the Committee for the preparation of a scheme for the improvement of the Bangalore City and defining the business to be transacted by the Committee

6 No 1297-347—Ml 112-14 13, dated 13th August 1915, sanctioning the recommendations of the Bangalore City Improvement Committee for improvements to the City of Bangalore

7 No 2747-50—Ml 111-15-32, dated 3rd November 1916, laying down the programme of the Bangalore City Improvement Works

8 No 6317-20—Ml 87-17-32, dated 9th May 1918, passing orders in the matter of the revised programme of Bangalore City Improvement Works and arrangements for financing the said works

9 No 1986 8—Ml 91-17-15, dated 3rd August 1918, sanctioning the formation of a special division for the execution and supervision of certain City Improvement Works of the Bangalore City

Order No 5682-7—Ml 1-19-2, dated 14th November 1919

Government have had under their consideration for sometime past the question of reorganizing the Bangalore City Improvement Scheme in order to place it on a more efficient basis with a view to ensure a steady and prompt progress in its working New problems have arisen with the advent of new conditions consequent on the growth of the city in size, population and importance The city requires further improvement early not only from the point of view of sanitation and convenience, but also of its architectural beauty, the increased demands on its water-supply necessitate the renewal of the pumping machinery and distribution mains which are getting old and incapable to meet present requirements, the need for a comprehensive drainage and sewerage project for the whole city has long been felt and is overdue and the problem of housing the poor is pressing with greater insistence than ever and all these questions call for a detailed examination and a very early solution Government, therefore, deem this a fitting opportunity to review the entire situation and formulate their proposals in regard to all these questions and are accordingly pleased to observe as follows —

2 The Bangalore City Improvement Work has been in operation since 1889 when the late Sir K Sheshadri Iyer organized a Committee " with a view to report and to carry out all improvements that may be sanctioned by Government upon such report Since then, extensions and improvements to the old city have been carried out at a cost of Rs 15,42,784 up to 1917-18 and clean drinking water has been provided from the Chamarajendra Reservoir at a cost of Rs 27,23,469, while Rs 2,90,859 have been spent on drainage and Rs 7,06,162 on lighting the city with electricity generated at Sivasamudram Though this is a satisfactory record of progress, particularly in regard

to formation of New Extensions on a large scale to the North, south and west of the old City and the provision of water-supply and electric lighting which have undoubtedly contributed to the health and comfort of the population, yet, it cannot be denied that the improvements effected in other directions have been rather slow considering that a long time has elapsed since their inception Even in recent years things have not improved and the same delay is perceptible in the carrying out of sanctioned works In December 1913, Government, in their Order No 6340-9—Ml 330-12-3, reconstituted the Bangalore City Improvement Committee and assigned to them the work of preparing a comprehensive scheme for the improvement of the City including its drainage The proposals of the Committee were received in July 1914 and orders were issued in August 1915, sanctioning the following works estimated to cost Rs 8,84,889 A grant of Rs 3 lakhs per annum was also promised for five years

		Rs
1	Construction of a General Market	2,50,000
2	Town Hall and Municipal Office	2,00,000
3	Laying out of Market Square	1,66,674
4	Improvement of Yelahanka Gate Square	10,237
5	New extension to east of Fort Centre Road	1,57,708
6	Continuing Kitchetty Chattram Road to City Railway Station	44,070
7	Girdle Road through Sunnakal Farm	24,000
8	Shifting of Bamboo Bazaar	15,900
9	Minor Improvements	16,300

3 But much progress was not possible in respect of these works, until Government definitely laid down the lines on which the details of the schemes should be worked out and directed in their Order No 2747-50—Ml 111-15-2, dated the 3rd November 1916, that out of the above nine items, the following six works which were estimated to cost Rs 7,57,000 might be taken up and completed within the next two years —

1 Construction of a General Market
2 Town Hall and Municipal Office
3 Laying out of Market Square
4 Shifting the Bamboo Bazaar
5 Extension to the east of Fort Centre Road
6 Extension of Kitchetty Chattram Road to the City Railway Station

4 Owing to the increased estimated cost of some of the Improvement schemes after working out details, principally the New Market and the Town Hall and the Municipal Offices, the programme of works originally taken up had to be revised, to be within the total money limit sanctioned by Government Order of August 1915 and the Honorary President submitted on 3rd April 1918 a revised programme consisting of all the above works together with the following additional works as being either subsidiary to the works already proposed, or other specially urgent works of improvement —

7 Improving main drain in Avenue Road
8 Removing slums of Ammachowdri Palya
9 Improving main drain in Lal Bagh Road
10 Improvements of Dobbspet and Palace Upparahalli
11 Laying out of Hoskote Road into a Shop Street

all estimated to cost Rs 18 20 lakhs Of these items 5 and 11 costing Rs 5 13 lakhs, were expected to be self-supporting not requiring a contribution from Government This programme was finally approved of by Government in their Order No 6317-20—Ml 87-17-32, dated 9th May 1918 to be worked out in five years

5 The progress of the different works undertaken will be seen from the following —

(1) Construction of the General Market has been commenced, and is in progress

(2) Orders have issued recently selecting suitable sites for the Town Hall and Municipal Office buildings and arrangements are under consideration for the construction of these buildings at an early date

(3) The opinion of the Municipal Council is awaited on the remarks of the Chief Engineer on the improvement of the main drain in Avenue Road

(4) The detailed estimates for the improvement of Dobbspet and Palace Upparahalli, received from the Honorary President have been sanctioned

(5) Proposals for the acquisition of properties for the laying out of the Hoskote Road into Shop Sites have been sanctioned

(6) Detailed estimates and plans for shifting the Bamboo Bazaar have been sanctioned and properties have been acquired but construction work has not yet begun

(7) The original scheme of extending the Kitchetty Chattram Road to the City Railway Station has been revised so as to include lowering of the bund and the revised estimate is under the consideration of Government

(8) How the scheme of removing the slums of Ammachowdri Palyam has been worked out in detail may be reported to Government

(9) Sites in the new extension to the east of Fort Centre Road are being auctioned

(10) Minor improvements to the main drain in Lal-Bagh Road are being completed

6 The accompanying Memorandum deals briefly with the progress of City Improvement Works in Bangalore from the beginning and indicates the stages of their development Government have taken a forward policy in regard to these improvements and are anxious that the eleven works noted above should be vigorously pushed through and completed without further delay These works are estimated to cost Rs 13 07 lakhs, with the exception of the new extension and Hoskote Road Shop Centre, which are expected to be self-supporting Government have guaranteed the payment of Rs 3 lakhs per annum for outlay on this account A sum of Rs 2,85,565 is stated to have been already spent up to 1917-18 and the Honorary President proposes in his letter No 454, dated 17th May 1919, an expenditure of Rs 11,89,469 to be spread over three years, *viz* , 1918-19 to 1920-21 Separate orders will issue on this

7 ***Finance and Accounts*** —The accounts of the old Bangalore City Improvement Works were apparently not kept in a satisfactory condition Up to date information as to the total amounts of grant sanctioned by Government from time to time on improvement works, total amount spent for improvement of the old city and the laying out of the extensions, amount realised by sale of sites and amount due to Government is not readily forthcoming From the papers available, it is however seen that a sum of Rs 15,42,784 has been spent on the improvements up to 1917-18 and a sum of Rs 5,87,892 has been realised by the sale of sites There has therefore been a net cost of Rs 9,54,892 to State revenue on account of the improvements effected A sum of Rs 37,463 out of the realisations from the sale of sites are still due to be remitted to the Treasury Satisfactory explanation as to the adjustment of these amounts should be furnished to Government at a very early date An annual grant of Rs 1 lakh for five years was granted by Government in Government Order No 4706-10—L F 43-98, dated 4th June 1904

8 A grant of Rs 3 lakhs per annum having been sanctioned from State Funds in Government Order No 1297-347—Ml 112-14-13, dated 13th August 1915, details as to the drawing of these grants and particulars of expenditure relating to the same should be furnished

9 A statement of receipts and expenditure of the two self supporting schemes, *viz* , 1 New Extension, East of Fort Centre Road and 2 Hoskote Road Shop Centre, may be separately submitted under different heads detailed in para below

10 The accounts of the impovement work should be maintained separately and a new chapter added in the Municipal Administration Report detailing the progress made in respect of each item of work A tabular statement showing the grants drawn from Government, the money contributed by the Municipal Council, the amount realised from the sale of sites, the expenditure incurred on acquisition, drainage, water-supply, electric lighting opening of roads, etc , the arrears to be recovered and

the total amounts credited to the Treasury in respect of these improvements should be appended to the report annually, so as to give a clear and concise idea of the accounts relating to each item of improvement work The accounts should also be subjected to half-yearly audit by the Comptroller in future

11 *Drainage*—A complete scheme of drainage for the old city was originally prepared by the Sanitary Engineer involving an expenditure of Rs 10 lakhs and Government in their Order No 1297 347—Ml 112-14-13, dated 13th August 1915, promised to contribute one-half of this cost if the Municipal Council arranged to bear the remainder But the detailed scheme subsequently prepared by Mr D'Cruz is estimated to cost Rs 18½ lakhs and consists of eight drainage areas that admit of being taken up in parts This scheme has been scrutinised by the Chief Engineer who is of opinion that it is complete and may be sanctioned but that it would be sufficient to take up only the portion pertaining to the City proper and Fort costing Rs 12,04,494. As regards the financing of the scheme, the Municipal Council want the entire cost to be borne by Government while Government are of opinion that their offer to bear half the cost conveyed in their Order of August 1915, is a liberal concession Before passing final orders on the subject, the Government desire that the Municipal Council will reconsider their decision and suggest a more practical solution of the question of financing the Drainage scheme of the old City, so that the scheme may be worked out in sections The normal income and expenditure of the Municipal Council according to the sanctioned budget estimates for 1918-19, are respectively Rs 3,94,015 and Rs 3,57,012, and by suitable adjustment of expenditure they ought to be able to find unds for he scheme out of their growing revenues, but if on any account they are unable to tcontribute their share of the cost, they may raise a loan for the purpose

12 *Water-supply*—Owing to the increase in the consumption of water in the City, the pumping plant at Soldevanhalli is found to be incapable to pump the required quantity of water without causing bursts in the rising main Attempts at improving the pumping have resulted in the frequency of these bursts and have not proved helpful to minimise the insufficiency of water pumped Consequently, other makeshifts, such as diminishing the speed of the pumps, reducing the consumption in the City and purchasing water from the Civil and Military Station to supplement the deficiency have had to be resorted to Even the electrification of the pumping plant is not expected to yield any better results Complaints are also being received from residents in the several localities of the City that supply of water to their houses is not satisfactory and they are consequently put to great hardship

13 To remedy this unsatisfactory state of affairs, proposals have been made to construct a new intermediate pumping station midway between Hessarghatta and Bangalore or to duplicate the rising main to the Banavar hill and also to overhaul and improve the water-supply distribution system in the City The duplication is estimated to cost nearly 16 lakhs of rupees, while the construction of an intermediate pumping station and the overhauling of the distribution system are estimated at Rs 1½ lakhs each The pumps have been working for the past 25 years, so also the pipe line and the entire plant requires thorough overhauling and renovation

14 In view, however, of the large cost and the technical questions involved in the scheme, Government deem it necessary to constitute a Committee with the Chief Engineer as President, the Honorary President of the Municipal Council, the Superintending Engineer, Sanitary Division, the Deputy Chief Engineer and two Councillors selected by the Municipal Council as Members and the Municipal Engineer as Secretary, to consider the question in all its details and submit their proposals to Government early for sanction

15 *Maintenance charges*—The annual maintenance charges of the Bangalore City Water-Supply which amounted to Rs 74,447 in 1904-05 has increased to more than twice the sum in 1917-18 when it amounted to Rs 1,66,956 Ordinarily these charges have to be borne by the Municipal Council themselves, but owing to representations made by the President, Government in their Order No Fl 4815-21—Ml 88-04-4, dated 3rd February 1906, directed that the contribution by the Municipal Council towards meeting these charges be limited to Rs 30,000, the balance being borne by Government The Municipal Council were also permitted to utilise for their own purposes all excess over the Rs 30,000 realised by the levy of water tax while the receipts on account of excess consumption of water in the City are credited to the Public Works Department

16 The share borne by Government in meeting these charges after deducting these credits stands as follows for the past five years —

	Rs
1913-14	40,497
1914-15	55,596
1915-16	28,203
1916 17	31,415
1917-18	81,791

It will be seen that the contribution by Government is increasing year by year ending in an abnormal inflation during 1917-18 and a revision of the existing agreement between the Government and the Municipal Council is therefore urgently called for The Committee constituted above should take up this question also and submit their recommendations in this behalf

17 *Housing of the poor* —The question of housing the poor has become an important problem calling for immediate attention The sale of sites in the extensions has resulted in such inflation of prices that the probabilities of the poor and the middle classes securing suitable sites for building their houses in accordance with their means are becoming more remote than ever On the proper solution of this housing question depends the health of the city and the comfort of the population It is therefore desirable that a Committee should be constituted to investigate and report early on this question in all its bearings and to suggest practical measures, based on a self-supporting basis, for increasing the housing accommodation of the poor and the middle class population of the city Proposals in this respect should be submitted for the early sanction of Government

18 In concluding this general review, Government trust that with the enunciation of their policy as indicated above, the work of the City Improvement will proceed on right lines as expeditiously as possible and all the outstanding questions of importance settled in a satisfactory manner under a carefully conceived programme All questions of financing should be fully considered and detailed proposals made with reference to schemes and projects after they have undergone proper scrutiny and examination

B RAMASWAMAIYA,
Secy to Govt, Rev Dept

To—The President, Bangalore City Municipal Council
The Chairman, Bangalore City Improvement Committee
The Comptroller to Government
The Chief Engineer
The Sanitary Commissioner in Mysore
The Revenue Commissioner in Mysore
PRESS TABLE

Exd —C R

MEMORANDUM ON THE BANGALORE CITY IMPROVEMENT SCHEME

The scheme includes the following main items of work —

(1) Improvements to the Old City
(2) Laying out extensions on all sides of the City
(3) Water supply
(4) Drainage
(5) Electric lighting

2 The progress made under each item from the time of its inception is summarised below —

(1) IMPROVEMENT TO THE OLD CITY

3 In January 1889, the Deputy Commissioner of the Bangalore District, Col Macintire, in accordance with instructions given to him by the late Dewan Sir K Seshadri Iyer submitted to Government, for approval of certain proposals "for the extension and improvement of the Bangalore Town" These proposals comprised the following items of work —

(1) Extension of Guttahalli village estimated to cost Rs 6,000
(2) Opening a cross road in Fort from east to west removing 50 yards of wall on each side, Rs 400

(3) Improving and strengthening Fort Main Road, Rs 500
(4) Restoring Tippu Sultan's Palace in Fort so as to utilise it as a Town Hall and at the same time to make it one of the sights of Bangalore, Rs 25,000
(5) Repairing temple near the Old Palace, removing dwelling houses, etc , Rs 3,000
(6) Extension of the town on Gavipur side, Rs 20,000
(7) Forming a new grain bazaar on the Fort glacis and on part of present Military ground, Rs 2,000
(8) Removing Chuckler and Holeyar Palyas, Rs 6,000
(9) Removal of classes of Town High School from the existing building to the old barracks in Fort, Rs 15,000
(10) College Boarding House, Rs 15,000

4 To this list was added a clock tower in front of the Fort, extension of the Cubbon Park and gradual removal of houses from Upparahalli near which could be built a house suitable for the reception of His Highness the Maharaja's Guests and the adjacent land made into pleasure grounds

5 The total cost of the proposals noted in para 1 was estimated at Rs 84,000 of which Rs 15,000, was expected to be recouped from the sale of lands for building purposes The Deputy Commissioner suggested in conclusion that a Committee may be appointed with Col Bowen, as President to carry out the improvements in a systematic manner without loss of time

6 *City Improvement Committee* —Accordingly a Committee was appointed in Government Order No 2259 65, dated 30th March 1889, called "The Bangalore City Improvement Committee" with a view to "report and to carry out all such improvements as may be sanctioned by Government upon such report"

7 In July 1892, Mr V P Madhava Rao, then Inspector General of Police, submitted to Government in his previous capacity of Deputy Commissioner, Bangalore District, a memorandum giving a record of work done in the past and of work contemplated for the future In passing orders on this memorandum, Government in their Government Order No 8165-72—L F 82 92, dated 10th December 1892, reconstituted the Improvement Committee, entrusted it with the work of providing roads and wells in the western and northern extensions already opened by the previous Committee and empowered them to allot sites for reasonable prices subject to the conditions of the Regulations laid down for the construction of houses The Committee was also given the help of Engineer Officers to advise it in all professional matters such as Engineering, Sanitary Improvements, etc

8 In 1895, the question of the transfer of the northern and western extensions to the Municipal Board in view to their general conservancy came up for consideration before a meeting of the Bangalore City Improvement Committee and a resolution was adopted to dissolve the Committee and hand over charge of the new extensions to the Municipal Board By this time the following works had been carried out in the old city by the Committee --

(1) *Fort Improvement* —(*a*) Albert Victor Road was provided with raised side walks and avenues
(*b*) The Fort Main Road was straightened, widened and provided with avenues
(*c*) The narrow gateway in the north was dismantled and widened to admit of a 30' roadway
(2) *Madigarapalya* - The village consisting of 206 huts was removed beyond the extension along the Mysore Road after the payment of compensation and liberal assistance to the Madigars In lieu of five old temples dismantled in this old Palyam, new ones were built A fresh water well 6' in diameter was sunk in the village, fair roads made and drains excavated and all arrangements for the comfort of the people and the conservancy of the village were duly provided

9 *Special Improvement Division* —As per Government Order No 3720 22—26 97, dated 16th September 1898, a Special Improvement Division was formed with the object of effecting the necessary improvements in the city proper in the interests of the health of the city and as a precautionary measure against plague The work to be done comprised the following items —

(1) Repair and construction of open drains in lanes and laying out stoneware pipes in main roads
(2) Substitution of daily conservancy privies instead of pit privies
(3) Opening out of conservancy lanes
(4) New extensions on all sides to prevent overcrowding in the city

10 The Sanitary Department budgetted for Rs 73,000 for carrying out the first three items and a special staff costing Rs 3,528 per year was entertained to cope with the

additional work in Government Order No 3177 78—L F 4-98, dated 6th September 1898 The actual expenditure on this account as finally reviewed in Government Order No 4706–10 —L F 43-98, dated 4th June 1904, was estimated to cost Rs 1,25,000, the heavy outlay being due to the necessity of undertaking on a larger scale the opening out of roads and lanes in the congested parts owing to the prevalence and ravages of plague Out of this amount, a sum of Rs 86,711-3 1 was paid as compensation for properties demolished and Rs 16,872 8-4, incurred on establishment and other charges, while Rs 10,501 was spent by the Department of Public Works Subsequently another sum of Rs 23,947 12 11 was incurred on account of compensation and Rs 3,840 for Public Works Department works so that the actual outlay on the improvements stands as follows —

	Rs	a	p
Compensation	110,659	0	0
Establishment and other charges	16,872	8	4
Public Works Department charges	14,341	0	0
Total	1,41,872	8	4

Government also granted a sum of one lakh of rupees per annum for the next five years commencing from 1903-04, to be utilised and spent for permanent improvement of the Bangalore City not falling within the legitimate scope of the obligations of the Municipality

11 *The City Improvement Committee* —The Old Improvement Committee was again revived in 1908, to draw up a comprehensive scheme of improvements for the old city but this work was not taken up by the Committee for want of expert assistance in town-planning and a city map based on a correct survey Consequently, Government reconstituted the Committee in their Order No 6340 9—MI 330-12-3, dated 20th December 1913, by appointing Engineer Officers on it to provide them with technical help At the same time, the New Extension Committee appointed for the purpose of allotting sites in the Shankarpur Extension was abolished as there was no necessity for it in the altered circumstances of the city

12 The work to be done by the City Improvement Committee was laid down as follows —

(1) Preparation of a correct map of the city

(2) Improvement of communications by short-circuiting existing roads so as to give easy access to all parts of the city

(3) Provision for sites for open spaces and parks and children's play grounds

(4) Improving drainage, particularly by removing all holes, hollows and uneven grounds in areas not built over so as not to allow water to stagnate anywhere within Municipal limits except in tanks and ponds recognised as such Provision to be made for the maintenance of all open spaces in future free from undergrowth, rank vegetation and always in a sanitary condition

(5) Allotment of sites for Markets, Municipal buildings, Schools, Boarding houses and other Public Institutions

(6) Provision for future extensions of the City for the next ten and twenty-five years

13 In compliance with this order the Committee submitted to Government their recommendations for the improvement of the city in July 1914 Their proposals consisted of the following improvements —

A Works to be taken up during the first three years

No	Name of improvement	Total cost	Net cost
		Rs	Rs
1	Construction of General Market	2,50,000	2,50,000
2	Town Hall and Municipal Office	2,00,000	2,00,000
3	Widening Avenue Road	19,56,944	7,13,500
4	Improvement and laying out of the Market Square	1,66,674	1,66,674
5	Improvement of Yelahanka Gate Square	10,237	10,237

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A Works to be taken up during the first three years—*concld*

No	Name of improvement	Total cost	Net cost
		Rs.	Rs
6	Setting back the Fort Buttress	4,500	4,500
7	New extension east of Fort Centre road	1,57,708	
8	Acquisition of mango tope of M Surappa	7,100	
9	Acquisition of K H Ramaiya's land, etc, near Sheshadripuram	4,700	4,700
10	Shifting of Bamboo Bazaar	15,900	6,000
11	Continuing the Kitchetty Chattram Road to City Railway Station	44,070	44,070
12	Girdle Road, through Sunnakal Farm	24,000	24,000
	Total	28,41,833	14,23,681

B Works proposed for ten years

No	Name of improvement	Estimate amount
1	New Diagonal Roads —	Rs
	(1) From the Market Square to the junction of Taluk Cutcherry road and Sunkalpet road	2,38,140
	(2) From the Market Square to the junction of Taluk Cutcherry road with Arcot Srinivasacharlu's street	1,00,134
	(3) From the junction of the Arcot Srinivasacharlu's street and Taluk Cutcherry road to the junction of Balepet and Hospital roads near Upparpet Police Station	1,51,998
	(4) From the junction of Mysore road and Arlepet road near Barr Lines to the junction of the Kengeri Bagal road and Arcot Srinivasacharlu's street	1,32,235
	(5) From the junction of the Taluk Cutcherry road and Arcot Srinivasacharlu's Street to the Yelhanka Gate	2,00,755
	(6) From the junction of the Taluk Cutcherry and Akkipet roads to the junction of Arlepet road and Railway road near Subbachetty Chattram	1,08,780
	(7) Continuation of Subbachetty Puranappa's lane to the District Office road	
	(8) Producing the west road of Dharmambudhi tank northwards to meet the Sampige road of Malleswaram	

II Girdle or Circular roads

(1) From south end of Kempambudi tank to the Bull Temple road going north of Gavipur and north of Sunkenahalli and from north end of the tank bund to join the 9th Cross road of Chamarajpet road

(2) A road from the Residency Park to the Race Course road to meet it at the low level reservoir

(3) A road from the eastern corner of the Lal Bagh round the Lal-Bagh compound on the east, over the Lal-Bagh tank bund to join the north road of Basavangudi Extension,

III Other roads—

(1) Continuing of Fort A Cross road opposite to Fort Police Station to join the Hosur Road near Kalaspalyam

(2) From the Cenotaph to the East road of Basavangudi extension through Ganganmacherry

IV (i) Widening of Chikpet road

(ii) Arlepet road

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V Provision of sites for open spaces Parks and children's play grounds

(1) Converting northern half of Dharmambudi tank into a park

(2) Converting the bed of Karanji tank into a park

VI Improvement of the area on either side of city main drain now occupied by Tiglars' gardens

VII Providing sites for factories

VIII Sites for hostels —

(1) Sanskrit Hostel (2) Mahratta Hostel

IX Construction of Septic tanks and opening a sewage farm below Jakarayankere for the combined sewage scheme of Malleswaram and Sheshadripuram

X (*a*) Providing Swimming bath in the Lal-Bagh tank

(*b*) Swimming bath in the Kempambudi tank

XI Providing a bathing ghat at the Kempambudi tank

XII Improvement of the slaughterhouse

14 In passing orders on these proposals Government in their Order No 1297-347—Ml 112 14-13, dated the 13th August 1915, deferred conveying sanction to the widening of the Avenue road as the project involved heavy outlay and approved generally the carrying out of the works noted in List A They further promised to contribute two-thirds of the cost of the scheme, if the Municipal Council agreed to bear the remainder and sanctioned the expenditure of Rs 3 lakhs per annum for the next five years As regards the less urgent schemes outlined in List B, they were ordered to be further investigated and kept in view till the Municipal Council were financially in a position to carry them out

15 In addition to the above works, Government also sanctioned in their Order No 7200-2—Ml 142 13-9, dated 27th March 1916, a scheme at an approximate cost of Rs 74,000, for improvements to the Palace Upparahalli and Dobbspet Divisions promising a contribution of one-half of the outlay from the State Funds if the City Municipal Council agreed to bear the other half

16 With a view to facilitate the commencement of work on the projects sanctioned, the Dewan inspected the city on the 31st July and the 16th August 1916 with the result that an understanding was arrived at that the following works which were estimated to cost Rs 7,57,000 might be taken up and completed within the next two years

1 Construction of a General Market

2 Town Hall and Municipal Office including the diversion of the city main drain

3 Improvement and laying out of Market Square

4 Shifting the Bamboo Bazaar

5 New extension to the east of Fort Centre road

6 Extension of Kitchetty Chattram Road to the City Railway Station

17 As regards provision of funds for the improvement works for which Government have promised a contribution of two-thirds cost, the Municipal Council were permitted to incur the necessary expenditure in 1916-17 from their own funds, while in subsequent years Government would make adequate contributions from their own funds, or allow the Municipal Council to borrow in the open market, the interest being guaranteed by Government

18 In addition to the above six works ordered to be taken up, the question of the construction of hostels which the leaders of the Lingayet, the Mahratta and the Vaisya communities promised to build and the laying out of an industrial suburb for Bangalore were also ordered to be worked up with a view to their early completion

19 A responsibility sheet enumerating specifically the works to be undertaken, the time within which each should be completed and the officers or other gentlemen responsible for the same was also issued and a quarterly statement of progress on each item of work included therein was ordered to be submitted to Government commencing from January 1917 (*Vide* Order No 2747 50—Ml 111-15 2, dated 3rd November 1916)

20 But the Honorary President of the Bangalore City Municipal Council submitted to Government with his letter No 375, dated 3rd April 1918, the following revised programme of the City Improvement Works with estimated cost as per designs since approved

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Programme of City Improvement Works for three years with their estimated cost

Serial No	Items			Estimated cost
				Rs
1	Construction of General Market			4 5 lakhs
2	Town Hall and Municipal Office			5 5 ,
3	Improving existing main drain near Avenue road			0 61
4	Laying out Market Square			0 5
5	Shifting Bamboo Bazaar			0 3 ,
6	Removing slums of Ammachoudripalya			0 25
7	Extension of Kitchetty Chattram road to City Railway Station			0 57
8	Improvement to main drain on the Lal Bagh road –			
	(a) Parapet wall over tunnel	Rs	1 105	
	(b) Silt clearing		2 056	
	(c) Reducing the vent way of the tunnel		1 490	
	(d) Slabbing the drain up to the culvert east of Lal Bagh tunnel		8 000	
	Total		12 651	
		Total		0 13 lakhs
9	Improvements of Dobbspet and Palace Upparhalli			0 71 lakhs
		Total		13 07 lakhs
10	New extension east of Fort Centre road			3 63
11	Laying out of Hoskote road into a shop street			1 50

The works are those included in the scheme approved by Government and noted above with the Avenue road, Yelahanka Gate Square and the Girdle Road Scheme left out The total cost of these nine improvement works was estimated at Rs 13 07 lakhs

21 Government sanctioned these revised proposals of the Honorary President in their Order No 6317 20—Ml 87 17 32, dated 9th May 1918, and approved of the payment of the Government contribution of two thirds of the cost in respect of the works so long as no addition is demanded to the annual grant for five years promised by Government in their Order of the 13th August 1915 A sum of Rs 2 lakhs was ordered to be provided for these improvements in the budget for 1918 19 and Rs 4 lakhs for 1919 20 If funds were urgently needed, an additional lakh was ordered to be met by reappropriation or borrowed by the Municipal Council

(2) EXTENSIONS

New Tharagupet

23 This was the first extension formed by the City Improvement Committee as a result of the policy of the extension of the Bangalore town proposed in 1889 with a view to relieve congestion in the old city and safeguard its sanitation and health

(a) Nine main and cross roads varying in width from 50' to 30' were laid out, formed and provided with slab side drains for the greater portion of their length, and covered box drains at all junctions

(b) The old petta road in front of the Municipal School was extended up to the glacis road in order to afford a direct line of communication between the old and new Taragupets

(c) A large fresh water well 14' in diameter was sunk for the water supply of the place

(d) Shop sites to the number of 97 measuring 150'×30 each were marked out, of which 85 were sold

(e) The removal of the Pioneercherry was taken in hand and some huts were acquired and dismantled

(2) Western Extension (Chamarajpet)

23 This was opened in accordance with the programme laid down in Government Order No 2259 65, dated 30th March 1899

(a) In all 1,152 house sites measuring 30'×108' were marked out Of these 56 adjoining the glacis road were reserved for small bungalows In addition to these, four large bungalow sites measuring from 1½ to 2½ acres and 13 smaller ones about ½ an acre

each were marked out A narrow strip of land adjoining the Mysore road was also divided into five bungalow sites

(*b*) Altogether 824 sites were sold, of these 134 were already built upon

(*c*) There are five main roads all 30′ wide with 15′ margin for avenues There are also nine cross roads 30′ wide with avenue margins for every alternate road, making a total of 12 miles including conservancy lanes

(*d*) Culverts were built in the main and cross roads at such places where they were deemed necessary

(*e*) A few wells were sunk in suitable sites in the various localities and water tapped

(3) Northern Extension—(Seshadripuram)

24 This also formed part of the improvements contemplated in the Order of 1889 and comprised the following works —

(*a*) The village of Mullenahalli consisting of 37 houses was removed to a site to the east of the Maharaja's Mills after the payment of compensation for lands and houses Two wells were sunk in the new village and a good supply of water secured to the inhabitants The streets were also laid out and formed and earth drains, etc , excavated

(*b*) On the other side of the new road to Guttahalli and to the east of new Mallenahalli, 109 sites were marked out Of these 52 were sold by public auction

(*c*) To the east of the old Butt's road, the site forming a portion of the old steeple chase course was acquired and divided into 13 large bungalow sites and sold to the higher officers of the Durbar

(*d*) A new road, 30′ wide and provided with avenues, in the shape of a crescent was made to afford access to the various bungalows

25 *Finances of the Committee* —To effect the improvements noted above, Government advanced a sum of Rs 46,649 to the Committee up to the end of March 1895 There was an additional income from the sale of lands both in the northern and western extensions amounting to Rs 94,840-8-7 Out of this amount a sum of Rs 1,33,749 7-8 was spent on the improvements In addition to the above a sum of Rs 34,930 for flood water drains and Rs 20,000 for the completion of roads and streets were spent by the Public Works Department so that the total outlay on the extensions comes to Rs 1,88,679 7-8

26 *Dissolution of the Committee* —In sanctioning the dissolution of the Committee and handing over the extensions to the care of the Municipal Board, Government in their Order No 24999-25003—L F 82-92, dated 27th June 1895 recorded that the work of extension so far carried out was the largest work done for the city by the State in recent years The city was suffering from the great evil of over-crowding and was occupying the same area as it did many years ago when its population was much smaller than what it was then The extensions carried out have added largely to the health and comfort the citizens and the rapidity with which the western extension specially has filled proved the great popularity of the measure

27 Additional expenditure of Rs 2,210-7-0 for acquisition of land in New Taragupet should be added to the expenditure on Chamarajpet (*Vide* G O No 2248, dated 22nd August 1899)

(4) Basavangudi and Malleswaram Extensions

28 Owing to the prevalence of plague in 1898 and as a result of the policy already laid down under the City Improvement Scheme, it was found urgently necessary to relieve congestion in the city and open out two more new extensions towards the north-west and south west of the city Accordingly land to the extent of 484 acres and 30 guntas was notified in No 4522—M 1087, dated 20th September 1898, as being required for the Basavangudi extension Subsequently, in 1902 additional land to the extent of 294 acres and 24 guntas was acquired to connect Chamrajpet with Basavangudi Similarly land measuring 215 acres and 35 guntas was acquired and notified in No 11705—Mis 3455-56, dated 23rd April 1900, for laying out the Malleswaram extension

29 In both the extensions, 2,624 sites were originally marked off and subsequently a similar number of sites were divided estimated to fetch Rs 1,90,383 by sale The actual amount realised up to date is stated to be Rs 3,81,163

30 The expenditure on the two extensions may be classified as follows —

	Rs	a	p
Compensation, establishment and conservancy items	1,78,283	13	7
Estimated cost for laying out roads, drains and metalling roads	2,26,280	0	0
Estimated cost for providing water supply	72,859	0	0
Cost of laying pipes, constructing steps and grain bazaar	26,095	14	0
Total	5,03,523	11	7

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(5) Shankarpur Extension

31 The question of forming a new extension between Chamarajpet and Basavangudi was under contemplation from April 1903 as a result of a memorial submitted by certain residents and holders of sites in that locality. As it was found on enquiry that it would form a very attractive extension in close proximity to the city, with two main roads and half a dozen cross roads, the work of acquiring the lands and allotting them into suitable building sites was investigated in accordance with G O No 2327-30—107-07-2, dated 9th September 1907 Government issued final orders in G O No 10303-8—Ml. 107-07-13, dated 15th April 1908, approving of the land acquired being divided into sites and appointing a Committee for the purpose of fixing suitable upset prices on the sites and allotting them among the several applicants for sites in the locality

New Extension Committee

32 The total extent of land acquired for the extension is 77 acres which together with 10 acres of kharab land forms the entire area of the extension About 20 acres of this land were reserved for the Sanskrit University and the remainder exclusive of the kharab land was apportioned into 8 bungalow sites, 58 cottage sites, 18 house sites of 1st quality and 54 of the second quality

33 The outlay on the new extension was as follows —

	Rs
Cost of acquisition of lands	39,038
Cost of Matt road and other roads	91,129
Cost of construction of drains	29,224
Laying out pipes and opening fountains	9,808
Total	1,69,199

The proceeds from the sale of sites amounted to Rs. 53,429

(6) Gavipur Extension

34 A small extension to the south of the Sri Ramakrishna Matt at Basavangudi was formed in 1914-15 The area comprising the extension was divided into 16 cottage and 64 house sites which were sold by the Municipal Council No Government grant was given to this extension as it was entirely initiated and financed by the Municipal Council A sum of Rs 43,460 is reported to have been realised by the sale of sites

(7) Extension to the east of Fort Centre Road

35 This extension was undertaken as a result of the provision made for future extensions in the scheme of improvements laid down in G O No 6340-9—Ml 330-12-3, dated 20th December 1913 The City Improvement Committee made a formal recommendation to Government for the formation of this extension and included it in the list of improvements proposed by them They originally estimated the cost of laying it out at Rs 1,57,708 The Government accepted the recommendation of the Committee and accorded administrative sanction to it in their Order No 1297 347—Ml 112 14-13, dated 13th August 1915 They also observed in their Order No 6317 20—Ml 87-17 32, dated 9th May 1918, that this extension would be a self supporting one not requiring any contribution from Government

36 The area of the extension covered by residential buildings is 119 acres Provision is made for 350 sites comprising bungalow, cottage, middle class dwelling and poor class dwelling house sites A revised estimate making due allowance for effective drainage architectural beauty and effective lay out and costing Rs 3,63,640 has been sanctioned This estimate provides for the following works —

		Rs
1	Laying out roads	38,200
2	Laying out culverts	22,500
3	Flood water drains	78,100
4	Laying water-supply mains	35,000
5	Compensation for lands	1,00,000
6	Underground drainage	57,200
7	Lighting connection	30,000
8	Planting avenues	2,640
	Total	3,63,640

37 The entire scheme is expected to be a self supporting one, the realisations from the sale of sites being estimated to yield Rs 2,36,440

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38 The work of laying out the extension has been taken on hand with a view to providing employment for people in search of labour on account of the present abnormal seasonal conditions

(7) Industrial Suburb

39 This forms an extension to the city and recommendations for its formation were made by the Bangalore City Improvement Committee and approved in Government Order No 1297-347—Ml 112-14-13, dated 13th August 1915

40 The site selected for the suburb measures an area of about 221 acres along the Bangalore-Magadi road The object of laying out the suburb is to locate industrial concerns and concentrate them in one place so as to be self contained in every respect

41 The Honorary President of the Municipal Council submitted plans and estimates for Rs 1,06,157 for acquiring lands, laying out roads, etc , and the same has been sanctioned in Government Order No 7080 6—Ml 213-16-7, dated 19th June 1919

42 A scheme for the water supply to the suburb has been ordered to be investigated and the Honorary President has submitted a subsidiary scheme for an independent water-supply to the suburb at an outlay of Rs 30,000 with a recurring expenditure of Rs 4,620 per annum for maintenance

43 The Municipal Council have been asked to contribute the amount required for laying out roads, the amount required for payment of compensation not exceeding Rs 74,557 being advanced to the Municipal Council by Government

44 Government have also sanctioned the proposals of the President

(i) to formally acquire and confirm the areas in the occupation of certain industrial concerns to them,

(ii) to shift the Madigarapalya from its present position and locate it at the north-east corner of the suburb,

(iii) to locate an Industrial Bureau with Central Offices, Laboratory, etc , on the site of the existing Epidemic Diseases Hospital ,

(iv) Basavanapalya to be realigned and

(v) to fix upset price at Rs 1,000 for 2 acres factory sites and at 4 annas per square yard for residential sites

The resolution of the Municipal Council to bear half the net cost of laying out the suburb is under consideration and the Chief Engineer's report on the water supply scheme is awaited

(3) WATER SUPPLY

45 It was determined early in 1893 to set aside all other previously proposed schemes for the water supply of Bangalore, whether for the Civil and Military Station or for the city and to undertake a joint scheme with the Hessarghatta tank on the Arkavati river as its source of supply which would afford an ample supply of water to the whole of Bangalore This source was, after full investigation of all others available, found to be the only one which would ensure a full sufficiently pure supply to the whole population at a reasonable cost

46 In December 1893, the settlement of compensation for the lands and villages taken up having been equitably adjusted, sanction of Rs 79,197 was accorded therefor This was followed up by the sanction of estimates piecemeal for the water supply delivery channel and main storage tanks, filters, and other auxiliary works so that the amounts of the several estimates aggregated finally to Rs 15,05,593 This estimate does not include the distribution to the city and the subsidiary high level system Estimates for both these items were subsequently finally sanctioned in Government Order No 159 66—1062 69, dated 22nd February 1898, and the entire cost of the project for water-supply to the City stands as follows —

	Rs
Cost of tank works	15,05,593
City distribution	2,45,304
High level system	1,31,810
Miscellaneous	68,124
Total	19,50,831

47 The analysis of the water in dry weather has shown it to be very pure but when the reservoir receives a supply due to rainfall the water becomes turbid There is nothing to show, however, but that apart from this turbidity, the water is wholesome To eliminate the risks attendant upon this turbidity and to ensure a thoroughly wholesome supply

of water, the jewell system of filters was installed in Bangalore in 1909-10 to filter effectively the water pumped from the reservoir The cost of these filters which are six in number amounts to Rs 2,12,985 and they are able to filter three million gallons a day and thus ensure a supply of pure drinking water to the population But latterly the consumption having increased owing to the expansion of the city, the installation of additional filters at an approximate cost of Rs 45,380 has been sanctioned

48 The water service was laid on to the city in 1896 to the fountains erected in the main streets and the question of affording private house connections was carefully considered and sanctioned in Government Order No 330 1932, dated 10th May 1897 A water meter of proper size and pattern was ordered to be provided for each house for the accurate gauging of water consumed The quantity of water which a householder should be entitled to draw by means of his house connection was laid down and a scale of fee varying from Re 1 to Rs 4 for every 1,500 gallons consumed over and above the free allowance was fixed

49 The annual maintenance of the water-supply which originally amounted to eighty thousand rupees was borne by the State till 1902-03 but it was ordered in Government Order No 4720 23—L F 37 99, dated 4th June 1904, that from and after the year 1903 04 the entire annual proceeds of the revenue from water tax and tolls which then approximately came to Rs 39,000 subject to a minimum contribution of Rs 30,000 per annum was ordered to be assigned from Municipal Funds towards the annual maintenance charges of the water works, the balance required being borne by the State The maintenance charge has since increased and for the year 1917 18 it amounted to Rs 1,67,425 The whole scheme including all miscellaneous charges has cost Rs 27,23,469 up to the year 1917 18

(4) DRAINAGE

50 The amount spent to construct V shaped drains, culverts, flood water drains in connection with the city improvements to the old city as well as for extensions is noted above under their respective items, and has cost Rs 2,90,859 up to 1917 18 These were undertaken as part of the particular item of improvement whenever a new extension was opened and the old city was brought under a particular scheme of improvement But a comprehensive project of an efficient drainage system for the entire city was partly attempted when a special project costing Rs 1,24,000 was sanctioned for the drainage of the Chamarajpet extension in 1899 But latterly a complete scheme of drainage for the city involving an expenditure of Rs 18,21,200 has been prepared by Mr D'Cruz and is separately under consideration

(5) ELECTRIC SUPPLY

51 Government in their Order No 552 5—3157 60, dated 30th May 1904, sanctioned a second installation at the Sivasamudram generating station for the purpose of supplying electric power and lights for Bangalore at an estimated cost of Rs 7,99,665 and street lighting of the city with electricity commenced in 1905 There are at present 1,468 street lights in the city

52 Connections to bungalows and dwelling houses were given in 1906 and 1908 as per Orders Nos 685 4711 and 164 5-1214 5, dated 14th July 1906 and 18th February 1908, respectively Extensions of this interior power and lighting are being carried out year after year since then and the average expenditure now on this account is about Rs 33,000 per annum The number of bungalows and other residences served with lights at the end of 1917-18 was 1,337

53 The extension of street lights to the suburban villages of Bangalore was sanctioned in Government Order No 1133 4—7725 6, dated 8th December 1908 at a cost of Rs 59,101

54 Besides street and house service, electric power is being supplied for industrial purposes also The number of such installations is 67 at present